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Application Number 10/10,645
Filing Date November 13, 2001
First Named Inventor Havenga et al.
Group Art Unit 1643 (1636)
Examiner Name B. Wittenberg M. Maruch
Attorney, Agent Number 2520-5006-111S

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

**Examiner
Signature:**

Manich

Date Considered

11/13/03

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PTO/SB/05B(10-03)

Approved for use through 10/31/2002. OMB 0651-0031

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Sheet 2 of 3

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Application Number	10/010,645
Filing Date	November 13, 2001
First Named Inventor	Havenga et al.
Group Art Unit	1645-1636
Examiner Name	B. Whiteman M. Maruich
Attorney Docket Number	2478-5006.11US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MM		CONGET, P.A., et al., "Adenoviral-mediated gene transfer into ex vivo expanded human bone marrow mesenchymal progenitor cells," 28 EXPERIMENTAL HEMATOLOGY 382-390 (2000).	
MM		GOOSSENS, J.H., et al., "Infection Efficiency of Type 5 Adenoviral Vectors in Synovial Tissue Can Be Enhanced With a Type 16 Fiber," 44(3) ARTHRITIS & RHEUMATISM 570-577 (March 2001).	
MM		HAVENGA, M.J.E., et al., "Exploiting the Natural Diversity in Adenovirus Tropism for Therapy and Prevention of Disease," 76(9) JOURNAL OF VIROLOGY 4612-4620 (May 2002).	
MM		HAVENGA, M.J.E., et al., "Improved Adenovirus Vectors for Infection of Cardiovascular Tissue," 75(7) JOURNAL OF VIROLOGY 3335-3342 (Apr. 2001).	
MM		MARX, J.C., et al., "High-Efficiency Transduction and Long-Term Gene Expression with a Murine Stem Cell Retroviral Vector Encoding the Green Fluorescent Protein in Human Marrow Stromal Cells," 10 HUMAN GENE THERAPY 1163-1173 (May 1, 1999).	
MM		OLMSTED-DAVIS, E.A., et al., "Use of a Chimeric Adenovirus Vector Enhances BMP2 Production and Bone Formation," 13 HUMAN GENE THERAPY 133-1347 (July 20, 2002).	
MM		ROELVINK, P.W., et al., "Identification of a Conserved Receptor-Binding Site on the Fiber Protein of CAR-Recognizing Adenovirus," 266 SCIENCE 1568-1571 (Nov. 1999).	
MM		ROELVINK, P.W., et al., "The Coxackievirus-Adenovirus Receptor Protein Can Function as a Cellular Attachment Protein for Adenovirus Serotypes from Subgroups A, C, D, E, and F," 72(10) JOURNAL OF VIROLOGY 7909-7915 (Oct. 1998).	
MM		TURGEMAN, G., et al., "Bone Stem Cell Mediated Gene Therapy and Tissue Engineering," 15(7) JOURNAL OF BONE AND MINERAL RESEARCH S196 (Sept. 2000), Abstract.	
MM		TURGEMAN, G., et al., "Engineered human mesenchymal stem cells: a novel platform for skeletal cell mediated gene therapy," 33 J. GENE MED. 249-251 (2001).	
MM		VIGGESSWARAPU, M., et al., "Adenoviral Delivery of LIM Mineralization Protein-1 Induces New-Bone Formation In Vitro and In Vivo," 83-A(3) THE JOURNAL OF BONE & JOINT SURGERY 364-376 (March 2001).	

Examiner Signature	MMaruich	Date Considered	11/13/03
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<i>Complete If Known</i>	
Application Number	«Patent Application No.»
Filing Date	«Patent Filing Date: July 4, 1996»
First Named Inventor	«Inventor Short Form for Applicant»
Group Art Unit	«Patent Group Art Units» 1636
Examiner Name	«Patent Examiner» Marvin L.
Attorney Docket Number	«Attorney Master ID#»

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner
Signature

M. Marich

Date
Considered

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